Statewide Daily Vehicle Hours Delay Reduced by 2016 on State Highways by Pyramid Element Recurrent Delay on Urban Freeways

2016 w/Pvramid Elements:

Current: 558,143 Daily Vehicle Hour Delay (DVHD)

454,500 DVHD

 2016 with Status Quo:
 753,000
 DVHD

 Increase Current - 2016:
 194,857
 DVHD

 Reductions by Pyramid Elements:
 298,500
 DVHD

 Dur Delay (DVHD)
 ITS / TMS > 10%
 75,000

 Operational Improvements > 10%
 75,000

 System Completion > 9%
 67,500

 Timely Rehab > 1%
 6,000

 Land Use and Demand Management < 10%</td>
 75,000

 Estimated Reductions in DVHD *
 298,500

* Requires aggressive, coordinated, project completion and cooperative actions of local jurisdictions (such as approval to meter ramps).

Reductions from Pyramid Elements

DVHD

Primary Reductions by 2016

2005 - 2016 Daily Vehicle Hours of Delay Reduced 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 629.000 646.714 664,429 682.143 Level of Recurrent Delay (DVHD) - Status Quo 558.143 575.857 593,571 611.28 699,857 717.57 735.286 753,000 603.100 603.028 602.941 596.352 582.508 Reduced Level of Recurrent Delay with GoCalifornia ** ** 557.981 517.727 454,500 ** ** 43.686 61.488 85.791 Reduced Delay Hours All Pyramid Elements 25.900 117.350 159.590 217.559 298,500 Primary Reductions to Recurrent Delay by 2016 \$ (Billions) By Directed Investment System Completion and Expansion >9% (67,500 hrs/day) \$45.525 6.585 17.012 23.990 32.692 41.394 50.096 58.798 67.500 Complete HOV Systems and Focus Routes \$21.214 Expand Freight Corridors, \$18.857 Complete Regional Priority Routes, Tribal Roads Expand Existing Transit Rail, New Urban Commuter Rail, \$4.511 Intercity Passenger Rail Expand Park and Ride, Improve Bicycle and Pedestrian \$0.943 Operational Improvements >10% (75,000 hrs/day) \$27.278 7.182 10.312 13.471 18.518 26.692 34.597 50.939 75.000 Fund SHOPP Plan Immediate Short-term \$3.775 (Operational Improvements 310's & 321's) Congestion Relief Projetcs Some Reduction in DVHD \$4.132 Fund SHOPP - Safety Improvements Accrues in Corridor Mobility Management Program (Perfomance Measurement and Operational Improvements and Evaluation, Major Congested Corridors (TOPS Levels 1-3). \$18.900 TMS Master Plan Elements Includes ITS on Local Arterial and Modal Systems) Improve Transit and Rail Services \$0.471 ITS/Traveler Info/Traffic Control/Incident Mgt-TMS Master Plan 10.312 \$3,300 ** ** 7.182 13.471 18.518 26.692 34.597 50.939 75.000 (>10% - Reduce Delay by 75,000 hrs/day) Implement TMS Master Plan (Included in ITS) Fund SHOPP ITS Element (SHOPP 315's) \$2.376 Improve Central and Field Element Ops & Maint \$0.627 Expand Freeway Service Patrol \$0.297 Smart Land Use/Demand Management/Value Pricing <10% 2.500 3.000 7.000 12.000 18.000 35.222 51.298 75.000 (75,000 hrs/day) Preservation and Rehabilitation >1% (6,000 hrs/day) 2,450 3,050 3,557 4,064 4,571 5,079 5,586 6,000 Fund SHOPP Plan Roadway, Roadside, Bridge, Mandates, \$28.948 Facilities and Emergency Repair **System Monitoring and Evaluation** (Cost and Delay Reductions in TMS) Implement PeMS - Perform Project Development Construct Projects TOTAL FOR PRIMARY REDUCTIONS \$105.051 -Fix loops, implement statewide detection - Build Transit Vehicles Deploy ITS and Integrate Systems -Evaluate Major Congested Corridors and Rail Cars Implement Operational Current Congestion Estimated (grown) from HICOMP 2002. (TOPS Levels 1 - 3) - Develop ITS Corridor and Improvements Data available at initiation of this effort) -Identify Strategies, Actions & Projects System Integration Design ** Unquantified DVHD reduced from short term operational improvements implementation -Develop Comprehensive Corridor Plan COS Included in all costs at 32%. Operations and Maintenance (O and M) not included. Some Reductions Accrue Some Reductions Accrue Most Delay Reductions Accrue